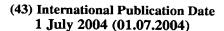
## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

## (19) World Intellectual Property Organization

International Bureau







**PCT** 

## (10) International Publication Number WO 2004/054484 A2

(51) International Patent Classification<sup>7</sup>: A63B 71/10

A61F 5/56,

(74) Agents: LUZZATTO, Kfir et al.; Luzzatto & Luzzatto, P.O. Box 5352, 84152 Beer Sheva (IL).

(21) International Application Number:

PCT/IL2003/001063

(22) International Filing Date:

11 December 2003 (11.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

153451

15 December 2002 (15.12.2002) IL

(71) Applicant (for all designated States except US): EPISAFE MEDICAL DEVICES LTD. [IL/IL]; 1 Leshem Street, 82000 Kiryat Gat (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LAVI, Eran [IL/IL]; 1 Ben Zvi Street, 53630 Givatayim (IL). MADJAR, David [IL/IL]; 12 HaGaon Eliyahu Street, 52364 Ramat Gan (IL). EVRON, Moshe [IL/IL]; 40 Mashavim Street, 45201 Hod Hasharon (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN,

MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DEVICE FOR SEPARATING BETWEEN THE UPPER AND LOWER JAWS AND METHOD OF USING THE SAME

(57) Abstract: A device for separating between the upper and lower jaws is disclosed. The device comprises at least one substantially U-shaped rib and a deformable member associated therewith such that said member gradually changes its shape when a pressure is applied on the at least one rib by the jaws. The device is suitable for preventing self-inflicting or externally inflicted injury or for suppressing upper airway resistance syndrome, sleep apnea syndrome or snoring. By filling at least one reservoir formed in the deformable member with a beneficial or edible material and inserting the device into the oral cavity of a subject such that said deformable member separates an upper set of posterior teeth from a corresponding lower set of posterior teeth, the beneficial or edible material may be delivered to the subject.

